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COUNTRY Soviet Zone of Germany

REPORT NO. [REDACTED]

TOPIC Unterwellenborn Maximilian Ironworks Emergency Requirements of D.C. and Three-phase Electromotors

Electromotors

25X1X

25X1X

PLACE OBTAINED [REDACTED]

DATE OF CONTENT 25X1C

DATE OBTAINED 25X1A DATE PREPARED 19 September 1950

REFERENCES

PAGES 1 ENCLOSURES (NO. & TYPE) 1 dittoed copy of a letter in German

REMARKS

25X1X

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1. Attached is a copy of a letter from the Unterwellenborn Maximilian Ironworks. The letter, dated 14 February 1950, and carrying file note Poe/IB Wk Ga., concerns the Unterwellenborn Maximilian Ironworks emergency requirements of D.C. and three-phase electromotors. * and **

* 25X1A Comment. The Maximilian Ironworks has been experiencing great difficulties in obtaining the motors listed as emergency. The items marked with a single asterisk in the annex were the only ones which could be supplied by April 1950. Of the 6 three-phase motors marked with a double asterisk, only three could be procured by the end of March 1950.

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** Comment. These emergency requirements comprise a total of 114 D.C. and three-phase motors with a total capacity of about 2,100 kw. However, this total includes only 14 motors with an individual capacity of more than 100 kw. These requirements therefore refer to small motors. The Soviet Zone manufactured about 96,700 such motors in 1949, as compared with 378,000 produced in western Germany in that year. In addition, the Soviet Zone imports several hundred electric motors a month from the Western zones. The supply difficulties were obviously exaggerated, for the Maximilian Ironworks, as a priority I enterprise, should be able to get the necessary supplies even though the reparations quota imposed on Soviet Zone production is high.

1 Annex: 1 dittoed copy of a letter in German.

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This document is hereby regraded to CONFIDENTIAL in accordance with the letter of 16 October 1978 from the Director of Central Intelligence to the Director of Defense Mapping Agency.

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1/Annex



Abschrift von Überschrift

Sofortbedarf der Maximilianhuette UNTERKELLERN

an Gleich- und Drehstrommotoren.

1.) Gleichstrom-Hebezeug-Motoren in vollstaendig geschlossener Ausfuehrung, Form B 3,

mit Waelzlagern und normalem freien Wellenende, fuer Gleichstrom 140 Volt:

2 St.	41	kw	40 % ED	n = 650
4 "	34	"	40 % "	- 560
2 "	30,5	"	25 % "	- 550
3 "	22	"	40 % "	- 640
2 "	14,1	"	25 % "	- 650
4 "	5	"	40 % "	- 760
3 "	4	"	25 % "	- 670

Gleichstrom-Nebenschluss-Motoren in vollstaendig geschlossener Ausfuehrung,

Form V 1, mit Waelzlagern und normalem freiem Wellenende, fuer Gleichstrom

140 Volt:

4 St. 2 kw n = 1500

2.) Drehstrom-Hebezeug-Motoren in vollstaendig geschlossener Ausfuehrung, Form B 3,

mit Waelzlagern und normalem freiem Wellenende, mit Regulier-Schleifringlaeufer,

fuer Drehstrom 380 Volt:

5 St.	41	kw	25 % ED	n = 600
5 "	34	"	40 % "	- 600
3 "	30	"	60 min.	- 375
2 "	30	"	40 % ED	- 725
1 "	30	"	40 % "	- 960
4 "	23	"	25 % "	- 600
1 "	22	"	40 % "	- 725
3 "	20	"	60 min.	- 375
5 "	15	"	25 % ED	n = 950 mit Regulier-
2 "	14	"	25 % "	- 600 Schleifringlaeufer
2 "	10,5	"	15 % "	- 920
2 "	7	"	25 % "	- 750

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3 St. 6 kw 40 % ED - 935
 1 " 4 " 25 % " - 950
 4 " 4 " 25 % " - 750 mit Kurzschlussläufer

1 Drehstrom-Liebezeug-Motor in vollkommen geschlossener Ausführung, Form B 3,

mit Regulier-Schleifringläufer, Fabrikat Siemens-Schuckert-Werke, Type hOR

1561 - 8 %, mit einer Leistung von 40 kw bei 40 % und 725 Upm.

1 Drehstrom-Liebezeug-Motor, Form B 3, Schutz p 11 220/380 Volt polumschaltbar,
mit Kurzschluss-läufer, Fabrikat Brünken, Type EHL mit einer Leistung von 25/5
PS bei 25 % ED und 940/155 Upm 45 Schaltungen pro Stunde.

Drehstrom-Motoren in vollständig geschlossener Ausführung (P 33), Form B 3,

mit Zaelzlagern und normalen, freien Zellenende, mit Anlass-Schleifringläufer,
für Drehstrom 380 Volt:

1 St. 62 kw n = 985
 1 " 50 " n = 3000

Drehstrommotoren wie vor, jedoch mit Regulier-Schleifringläufer

1 St. 60 kw n = 950
 1 " 50 " n = 950

Drehstrommotoren wie vor, jedoch mit Kurzschlussläufer, für direkte Einschaltung:

8 St. 15 kw n = 725
 1 " 2,3 " n = 2900

Drehstrommotoren in normaler offener Ausführung (P 90), Form B 3, mit Zaelz-
lagern und normalen, freien Zellenende, mit Anlass-Schleifringläufer,

für Drehstrom 380 Volt:

1 St. 150 kw n = 725
 1 " 190 " n = 1460
 1 " 100 " n = 2900
 1 " 100 " n = 950
 1 " 90 " n = 1450
 1 " 90 " n = 1450
 1 " 78 " n = 725
 1 " 66 " n = 1440 (*)
 1 " 55 " n = 725
 1 " 40 " n = 2900 (*)
 1 " 20 " n = 2900 (*)
 1 " 15 " n = 950 SECURE/CONTROL/US OFFICIALS ONLY

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Drehstrommotoren wie vor, jedoch mit Kurzschlussläufer, für direkte Einschaltung:

1 St. 12 kw n = 3000

Drehstrommotoren wie vor, mit Kurzschlussläufer, für Stern Dreieckschalter 660/380 Volt:

6 St. 7,5 kw n = 1435 (**)

1 " 15 " n = 1420 (*)

Drehstrommotoren wie vor, jedoch mit Schleifringläufer:

2 St. 4,5 kw 9 - 1400 Upm. Rechts- u. Linkslauf

5 " 0,7 " 950 Upm. (PS)

2 " 15 " 3000 " (Turbine)

2 " 220 " 1479 Upm.

60 kw Drehstrom-Schleifringmotor - 750 Umdrehungen.

UNTERWELLENHORN, den 14.2.1949.

POe/IR EK Ga.

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Note.

"St." stands for Stücke (pieces).

The percentages possibly indicate in percentages the amplifications factor (Verstärkungsgrad) μ , with allowance made for friction and loss.

The meaning of "ED" is unknown.

"n" represents Umdrehungszahl (number of revolutions)

"Upm" is Umdrehungen per Minute (revolutions per minute).

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